# MEDYAN ABDELHAMID

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## PROFESSIONAL SUMMARY

Highly skilled senior backend developer and technical leader with over 20 years of experience designing, developing, and maintaining robust server-side applications. Combines deep expertise in system analysis, database management, and machine learning with a proven track record in workflow optimization and institutional restructuring. Adept at mapping, analyzing, and streamlining institutional workflows to eliminate systemic blockages and accelerate processing times. Skilled in formulating structural reform strategies, redesigning organizational roles, and establishing merit-based recruitment and vetting protocols. A strong problem-solver focused on delivering high-performance, scalable, and secure technical systems while optimizing overall organizational functionality.

## TECHNICAL SKILLS

- Proficient in various AI and NLP techniques, including machine learning, deep learning, natural language understanding, and sentiment analysis.
- Programming Languages: SQL, PL/SQL, Java, C#, C++, Python.
- Database Technologies: Oracle, MySQL, PostgreSQL, SQL Server.
- Database Administration: RMAN. Oracle Data Guard, Oracle Cluster, Performance, Security.
- API Development: RESTful APIs, SOAP.
- System Analysis Tools: UML, Agile methodologies, ER Diagrams.
- Backend Application Development: .NET Framework and .NET Framework Core.
- Desktop Application Development: .NET Framework.
- Operating Systems: Windows, Linux.
- Good programming skills in Building web-based applications in MVC.
- Machine learning programming using Python.

## EDUCATION

**Doctor of Philosophy (PhD) in Artificial Intelligence and Natural Language Processing**

Higher Institute for Applied Sciences and Technology, Damascus, 2023

**Master of Science (MSc) in Software Engineering**

Damascus University, Damascus, 2013

**Bachelor of Engineering (BE) in Informatics**

Higher Institute for Applied Sciences and Technology, Damascus, 1995

## SKILLS

- Knowledge of data processing and analysis using different tools.
- Experience with project management methodologies and tools.
- Good written and verbal communication skills.
- Ability to work independently and in a team-oriented environment.
- Strong analytical and problem-solving abilities.

## PROFESSIONAL EXPERIENCE

**Senior Backend Developer:**

**Syrian Information Technology – Damascus, Syria, 2000 – Present**

- Lead the design and implementation of scalable backend systems.
- Collaborate with cross-functional teams to define business requirements and develop APIs that facilitate data exchange between applications.
- Optimize SQL queries and database performance, resulting in reduced query response times.
- Oversee the administration of Oracle databases, including backup, recovery, and security management.
- Developed and maintained backend services for applications using .NET Framework.
- Assisted in system analysis and architecture design, ensuring alignment with business goals.
- Designed and implemented PL/SQL procedures and functions for data processing.
- Created desktop applications that enhanced user experience through efficient data handling.

## EXPERIENCE

### PROJECT MANAGER

FOR MANY ERP SYSTEMS, DAMASCUS, 2000-

- Led cross-functional teams in the successful completion of AI and NLP projects.
- Developed project plans, defined deliverables, and managed timelines and resources.
- Ensured project goals were met within budget and delivered high-quality results.
- Collaborated with stakeholders to identify requirements and provided regular project updates.
- Conducted risk assessments and implemented mitigation strategies.

### PEER REVIEWER

ARTIFICIAL INTELLIGENCE AND APPLICATION, 2024-

EXPERT SYSTEMS WITH APPLICATIONS, 2023-

ADVANCED ENGINEERING INFORMATICS, 2023-

- Reviewed and evaluated research papers related to AI and NLP.
- Provided constructive feedback and recommendations to authors.
- Assessed the quality, validity, and relevance of the research.
- Ensured adherence to journal guidelines and ethical standards.

### TUTOR

ARAB INTERNATIONAL UNIVERSITY, DARAA, (DATABASE, SYSTEM ANALYSIS AND DESIGN), 2024-

SYRIAN VIRTUAL UNIVERSITY, DAMASCUS, (DATA MINING), 2023-

- Conducted tutorial sessions for undergraduate and postgraduate students.
- Assisted students in understanding AI and NLP concepts and solving technical problems.
- Prepared and delivered lectures, presentations, and workshops.
- Provided guidance and feedback on assignments and projects.

## PROJECTS

- Accounting, General Organization for Seeds. .NET MVC, Oracle. 2025.
- Balance, General Organization for Seeds. .NET MVC, Oracle. 2025.
- Vehicles and Proceeds Management, Ministry of Transport. .NET MVC, Oracle. 2019 - 2025.
- Accounting, General Organization for Housing. .NET MVC, Oracle. 2015.
- Store Management, General Organization for Housing. .NET MVC, Oracle. 2015.
- Balance, General Organization for Housing. .NET MVC, Oracle. 2015.
- Accounting, General Organization for Land Development. .NET MVC, Oracle. 2010.
- Store Management, General Organization for Land Development. .NET MVC, Oracle. 2010.
- Balance, General Organization for Land Development. .NET MVC, Oracle. 2010.
- Incomes, General Organization for Civil Aviation. Delphi, Oracle. 2005.
- Balance, General Organization for Civil Aviation. Delphi, Oracle. 2005.
- Balance, General Company for Electricity, Aleppo. Delphi, Oracle. 2004.
- Balance, General Company for Internal Transport. Delphi, Oracle. 2003.
- Balance, General Organization for External Trade. Developer Forms, Oracle. 2002.
- Balance, General Organization for Remote Sensing. Delphi, Oracle. 1997.
- Balance, Syrian Arab TV. Delphi, Oracle. 1997.

## DATABASE ADMINISTRATOR

Ministry of Transport: Damascus, Syria, 2019 - 2024
University of Homs: Homs, Syria, 2024 – Present
General Department of Civil Affairs (United Gate), 2016- 2017

- Managed database systems and ensured high availability and performance.
- Conducted system audits and implemented best practices for database security and compliance.
- Provided technical support and training to end-users regarding database functionalities and application integration.

## PUBLICATIONS

- Hate Speech Detection on Levantine Arabic Text on Twitter, Social Networks for Analyzing and Mining, 2022.
- Hate Speech Detection on Levantine Arabic Text on Twitter, Damascus University Journal for Engineering Sciences, Damascus, 2022.
- Hate Speech Detection on Levantine Arabic Text on Twitter Using Deep Learning, National Conference on Informatics Engineering, Damascus, 2022.

## LANGUAGES

- Arabic: mother tongue.
- English: Very good (Reading, writing, speaking).
- French: Good (Reading, writing, speaking).